

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/002247

## A. CLASSIFICATION OF SUBJECT MATTER

**IPC7 A61K 31/352**

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 A61K 31/352

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean patents and applications for inventions since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
STN [caslink]

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KIM et al., 'Effect of DA-6034, a derivative of flavonoid, on experimental animal models of inflammatory bowel disease', Arch. Pharm. Res. 1999, Vol.22(4), pp.354-360 See the whole document.	1 - 15
A	US 6025387 A (DONG A PHARMACEUTICAL CO., LTD.) 15 Feb. 2000 See the whole document.	1 - 15
A	US 5399584 (THE PROCTER & GAMBLE COMPANY) 21 Mar. 1995 See the whole document.	1 - 15
A	EP 505937 A1 (GEYMONAT S.P.A.) 30. Sep. 1992 See the whole document.	1 - 15

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:  
 "A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier application or patent but published on or after the international filing date  
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)  
 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
 "&" document member of the same patent family

Date of the actual completion of the international search  
15 NOVEMBER 2004 (15.11.2004)

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16 NOVEMBER 2004 (16.11.2004)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

LEE, Mi Jeong

Telephone No. 82-42-481-5601



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## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Group I : Claims 1-3, 9-15 are directed to the monohydrate of 7-carboxymethyloxy-3',4',5-trimethoxyflavone, preparation method and uses thereof.

Group II : Claims 4-8 are directed to the preparation method of 7-carboxymethyloxy-3',4',5-trimethoxyflavone(nonhydrate).

The inventions listed as Group I and II do not relate to a single inventive concept under PCT Rule 13.1 because Group II does not have the technical feature regarding monohydrate of formula 1 which Group I has.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any addition fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6025387 A	15.02.2000	WO 984541 A1 EP 915864 A1 EP 915864 B1 JP 11514015 T2 JP 3377214 B2 CA 2261267 AA	05.02.1998 19.05.1999 04.09.2002 30.11.1999 17.02.2003 05.02.1998
US 5399584 A	21.03.1995	None	
EP 505937 A1	30.09.1992	IT 91500846 A0 IT 1245371 A	28.03.1991 20.09.1994